



Product Datasheet

Product Name	Interleukin-17 Human Recombinant
Cata No	CB500152
Source	<i>Escherichia Coli.</i>
Synonyms	CTLA-8, IL-17, IL-17A, Cytotoxic T-lymphocyte-associated antigen 8.

Description

IL17 is a proinflammatory cytokine produced by activated T cells. IL-17 regulates the activities of NF-kappaB and mitogen-activated protein kinases. Interleukin-17 can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of IL-17 are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis.

Interleukin-17A Human Recombinant produced in E.Coli is a homodimeric, non-glycosylated polypeptide chain containing a total of 264 amino acids (2 chains of 132 aa) and having a molecular mass of 30,250 Dalton.

The IL-17 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

The ED₅₀ as determined by the dose-dependent induction of IL-6 in Hs68 cell line was found to be

approximately 2ng/ml

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

Sterile filtered lyophilized (freeze-dried) powder, with 20mM Citrate, 0.1M NaCl, pH4.5.

Stability

Lyophilized Interleukin 17A although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL17 should be stored at 4°C between 2-7 days and for future use below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be, Gly-Ile-Thr-Ile-Pro.